

NUS Wireless Network Configuration Guide for Windows 10

The steps in this guide also applies to "NUS_2-4GHz" and student wireless SSID "NUS_STU" & "NUS_STU_2-4GHz" as well.

NOTE: For students, please forget / delete your previous "NUS" wireless profile before connecting to "NUS_STU".

1. Go to Windows 10 Desktop.



2. Press the **Windows** key and **R** key from your keyboard to open "Run". Enter **services.msc** and click **OK**.

NUS Wireless Network Configuration Guide for Windows 10 Page 1 of 15





3. Locate **WLAN AutoConfig** and <u>right-click</u> on it to choose **Properties**.

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Services (Local)	O Services (Local)					
	WLAN AutoConfig Stop the service Restart the service Description: The WLANSVC service provides the logic required to configure, discover, connect to, and disconnect from a winders heal area network (MLAN) sc	Name Windows Management Inst Windows Media Player Net Windows Mobile Hotspot S Windows Modules Installer Windows Push Notification Windows Remote Manage Windows Search Window Search	Description Provides a c Shares Win Provides th Enables inst This service Windows R Provides con	Status Running Running	Startup Type Automatic Manual Manual (Trig Manual Manual Automatic (D	Log ⁴ Loc Loc Loc Loc Net Loc
	defined by IEEE 802.11 standards. It also contains the logic to turn your computer into a software access point so that other devices or computers can connect to your computer wirelessly using a WLAN	Windows Time Windows Update WinHTTP Web Proxy Auto	Maintains d Enables the WinHTTP i The Wired	Running Running Running	Manual (Trig Manual (Trig Manual Manual Automatic	Loc Loc Loc Loc
	adapter that can support this. Stopping or disabling the WLANSVC service will make all WLAN adapters on your computer inaccessible from the Windows networking UI. It is strongly recommended that you have the WLANSVC service running if your computer bace all WLAN adapter	Whit Folders Work Folders Workstation WWAN AutoConfig Xbox Live Auth Manager Xbox Live Game Stre	Start Stop Pause Resume Restart	3	Manual Manual Automatic Manual Manual	Loc Loc Net Loc Loc
	computer has a weak adapter.	Xbox Live Networking Servi	All Tasks Refresh	>	Manual	Loc
	Extended Standard	·	Properties			
pens the properties (dialog box for the current selection.		Help			

4. Change **Startup type** to **Automatic** and click **Start**. Then click **OK**.



	1	12	2 2 2	
aeneral	Log On	Recovery	Dependencies	
Service	name:	WlanSvc		
Display	name:	WLAN Aut	toConfig	
Descrip	tion:	The WLAN to configur	NSVC service provides the logic required , discover, connect to, and disconnect	>
Path to	executabl	e:		
C:\Win	dows\syst	em32\svcho	ost.exe 🕂 LocalSystemNetworkRestricted	
Startup	type:	Automatic		1
		Duration		23
C	status:	Kunning		
Service		Stor	p Pause Resume	
Service	<u>Start</u>			
Service You can from he	itart n specify t re.	he start para	ameters that apply when you start the service	
Service You can from he Start pa	itart n specify t re. arameters:	he start para	ameters that apply when you start the service	e 1

5. Press Windows key and **R** key again to open "Run". Enter **control** click **OK**.

٥	Type the name of a program, folder, document, or Interne resource, and Windows will open it for you.
<u>O</u> pen:	control

6. Click **Network and Internet**.

NUS Wireless Network Configuration Guide for Windows 10 Page 3 of 15





7. Click on **Network and Sharing Center**.

Network and Internet			200	X
← → ~ ↑ 撞 > Control Pane	al → Network and Internet →	v 0	Search Control Panel	P
Control Panel Home System and Security	View network and Sharing Center View network status and tasks Connet to a network View network computers and devices			
Network and Internet Hardware and Sound	• HomeGroup Choose homegroup and sharing options			
Programs User Accounts	Internet Options Change your homepage Manage browser add-ons Delete browsing history and cookies			
Appearance and Personalization				
Clock, Language, and Region				
Ease of Access				

8. Click Set up a new connection or network.

NUS Wireless Network Configuration Guide for Windows 10 Page 4 of 15



Network and Sharing Center				- [2 >
🚽 👻 🛧 🛂 > Control F	Panel \rightarrow Network and Internet \rightarrow Network and Sh	aring Center	ڻ v	Search Control Panel	۶
Control Panel Home	View your basic network informati	ion and set up connections			
Change adapter settings	View your active networks				
Change advanced sharing ettings	stf.nus.edu.sg Domain network	Access type: Internet Connections: att Wi-Fi (NUS)			
	Changes your petworking settings				
	Set up a new connection or networ	rk			
	Set up a broadband, dial-up, or VPI	N connection; or set up a router or access point.			
	Troubleshoot problems Diagnose and renair network problems	ems or get troubleshooting information.			
	s agrees and report return prose				
ee also					
lomeGroup					
nternet Options					
Windows Firewall					

9. Choose Manually connect to a wireless network and click Next.

-	Connect to the Internet.	
	Set up a broadband of dial-up connection to the internet.	
-	Set up a new network	
	set up a free router of access points	
	Manually connect to a wireless network Connect to a hidden network or create a new wireless profile.	
	Connect to a workplace Set up a dial-up or VPN connection to your workplace.	

- 10. Enter/select the following settings:
 - Network Name: NUS

NUS Wireless Network Configuration Guide for Windows 10 Page 5 of 15



- Security Type: WPA2-Enterprise
- Encryption type: AES
- Tick Start this connection automatically
- Tick Connect even if the network is not broadcasting

Click Next.

Enter information	for the wireless network	you want to add	
N <u>e</u> twork name:	NUS	\supset	
Security type:	WPA2-Enterprise		
Encryption type:	AES		
Se <u>c</u> urity Key:		<u>H</u> ide characters	
Start this connec	tion automatically		
☑ C <u>o</u> nnect even if	the network is not broadcasting		
arning: If you	select this option, your compute	r's privacy might be at risk.	

11. Click Change connection settings.

NUS Wireless Network Configuration Guide for Windows 10 Page 6 of 15





- 12. Under **Connection** tab, tick <u>only</u> the following options:
 - Connect automatically when this network is in range.
 - Connect even if the network is not broadcasting its name (SSID)

NUS Wireless Network Configuration Guide for Windows 10 Page 7 of 15



NUS Wireless Network	Properties X
Connection Security	
Name: SSID: Network type: Network availability: ⊡ionnect automati Upok for other wir Upok for other wir	NUS Access point All users cally when this network is in range eless networks while connected to this network he network is not broadcasting its name (SSID)
	OK Cancel

- 13. Under **Security** tab, choose the following settings:
 - Security Type: WPA2-Enterprise
 - Encryption Type: AES
 - Tick Remember my credentials for this connection each time I'm logged on.
 - Network Authentication Method: Microsoft Protected EAP (PEAP)

Click Settings.

Note: if you are using a common or shared notebook, you should Uncheck Remember my credential for this connection each time I'm logged on.

NUS Wireless Network Configuration Guide for Windows 10 Page 8 of 15



Security type:	WPA2-Enterprise	~
Encryption type:	AES	\sim
Choose a network a	uthentication method:	
Choose a network a Microsoft: Protecte	uthentication method: d EAP (PEAP) <u>S</u> et	tings
Choose a network a Microsoft: Protecte	uthentication method: d EAP (PEAP) <u>Set</u>	tings
Choose a network a Microsoft: Protecte Remember my c time I'm logged c	uthentication method: d EAP (PEAP) V Set redentials for this connection each on	tings 1
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Choose a network a Microsoft: Protecte Remember my co ome I'm logged o Advanced setting	uthentication method: d EAP (PEAP) <u>Set</u> redentials for this connection each on	tings 1
Choose a network a Microsoft: Protecte Remember my cr time I'm logged o A <u>d</u> vanced setting	uthentication method: d EAP (PEAP) <u>Set</u> redentials for this connection each on	tings

- 14. Select <u>only</u> the following options:
 - Tick Verify the server's identity by validating the certificate
 - Tick Digicert Global Root CA
 - Tick Enable Fast Reconnect
 - Select Authentication Method: Secured password (EAP-MSCHAP v2)

Click Configure.

NUS Wireless Network Configuration Guide for Windows 10 Page 9 of 15



When cooperfine:	
grify the server's identity by validating the certificate	
Connect to these servers (examples:srv1;srv2;.*srv3),	com):
Trusted Boot Certification Authorities:	
Symantec Enterprise Mobile Root for Microsoft	^
DigiCert Global Root CA DigiCert Global Root CA Unextended a VeriSign Class 2 Public Primary Certification Authority - G VeriSign Class 3 Public Primary Certification Authority - G	3 3 5 4
<	>
Notifications before connecting:	
Tell user if the server name or root certificate isn't specified	~
elect Authentication Method:	
Secured password (EAP-MSCHAP v2) V	figure
Enable East Reconnect	
_geconnectin server does not present dryptodinging it.v _Enable [dentity Privacy	

15. Untick Automatically use my Windows logon name and password (and domain if any) and click OK.



16. Click **OK**.

NUS Wireless Network Configuration Guide for Windows 10 Page 10 of 15



Protected EAP Properties	×
When connection:	
grify the server's identity by validating the certificate	
Connect to these servers (examples:srv1;srv2;. "\.srv3\.com):	
Trusted goot Certification Authorities:	
Symantec Enterprise Mobile Root for Microsoft	~
DigiCert Global Root CA	
VeriSign Class 2 Public Primary Certification Authority - G3	
VeriSign Class 2 Public Primary Certification Authority - G3	
Versign cass s Public Printery cer encadori Adenoicy * 65	×
Notifications before connecting:	-
Tel user if the server name or root certificate isn't specified	
	53
Select Authentication Method:	
Secured password (EAP-MSCHAP v2)	
Enable East Reconnect	
Becomect inserver coes not present disploantang its	
Enable Identity Privacy	
OK Cance	8

Click **OK**

NUS Wireless Network Configuration Guide for Windows 10 Page 11 of 15



17. Click Advanced settings.

05 Wheless Networ				
Connection Security				
Security type:	WPA2-Enterp	rise		~
Encryption type:	AES			~
Choose a network a	authentication me	thod:		
Contraction of the second s				
Microsoft: Protecte	ed EAP (PEAP) redentials for this	connection	<u>S</u> ettings n each	
Microsoft: Protecte	ed EAP (PEAP) redentials for this on	connection	<u>S</u> ettings n each	
Microsoft: Protecte Remember my a time I'm logged a	ed EAP (PEAP) redentials for this on	connection	<u>S</u> ettings	
Microsoft: Protecte	ed EAP (PEAP) redentials for this on	connection	<u>S</u> ettings n each	

18. Tick **Specify authentication mode** and select **User or computer authentication**.

NUS Wireless Network Configuration Guide for Windows 10 Page 12 of 15



dvanced settings)
802.1X settings 802.11 settings		
Specify authentication mode:		
User or computer authentication $$	Save gree	dentials
Delete credentials for all users		
Enable single sign on for this network		
Perform immediately before user I	ogon	
O Perform immediately after user log	gon	
Maximum delay (seconds):	10	-
Allow additional dialogs to be displ	ayed during sir	ngle
This network uses separate virtua and user authentication	I LANs for mac	hine
	OK	Connert

19. Click **802.11 settings** tab and tick **Enable Pairwise Master Key (PMK) caching** Click **OK**.

02. 1X settings 802. 11 settings		
Fast roaming		
nable Pairwise Master Key (PMK) caching	1	
PMK time to live (minutes):	720	\$
Number of entries in PMK cache:	128	\$
This network uses pre-authentication	d.	
Maximum pre-authentication attempts:	3	*
compliance for this network	aras (~1~5,)
compliance for this network	aaros (~1~3,)
compliance for this network	uaros (ru-s,)
compliance for this network	Jarus (r.1~3))
compliance for this network	Jaros (ru-s,)
compliance for this network	uarus (ruro,)
compliance for this network	ося (г.л-5,	

20. Go to the bottom right of your Windows taskbar and click on the wireless icon.

NUS Wireless Network Configuration Guide for Windows 10 Page 13 of 15





21. Click on NUS and click Connect.



22. Enter NUSNET Username and Password and click **OK**.

•	Username	: (Enter your "Domain\NUSNET Username")
		(E.g. of Domain: NUSSTF/NUSSTU/NUSEXT)
•	Password	: (Enter your NUSNET Password)

← Settings

Wi-Fi		
	1	
Windows Security Sign in	×	
nusstf\cce***		
Domain: nusstf		
	OK Cancel	
IRO	DAD_V7_088957	
	Wi-Fi Or Vindows Security Sign in nusstf\cce*** Domain: nusstf	Wi-Fi On Windows Security X Sign in Inusstf\cce*** OK Cancel IROAD_V7_088957

23. You are now connected to **NUS** wireless network.

NUS Wireless Network Configuration Guide for Windows 10 Page 14 of 15



(k.	NUS Connect	ted					
(i.	APPLET	v					
(h.	eduroar	n					
(h.	IROAD_	V7_36F	DEF				
% .	NUSOPEN						
(h.	IROAD_V7_088957						
(h.	AndJV						
(h	PD1335	295D1()3Nar	ne3352	20C0001	15A	
Netv	vork setti	ings					
11.	1	\$					
NUS		Airplane	mode				

NUS Wireless Network Configuration Guide for Windows 10 Page 15 of 15